## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018113

		101/012	0047010113	
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> F16C19/36, F16C33/46				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> F16C19/00-19/56, F16C33/30-33/66				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Jitsuyo Shinan Koho 1922–1996 Toroku Jitsuyo Shinan Koho 1994–2005 Kokai Jitsuyo Shinan Koho 1971–2005 Jitsuyo Shinan Toroku Koho 1996–2005				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
Y	JP 11-210765 A (NTN Corp.), 03 August, 1999 (03.08.99), Claim 1; Par. Nos. [0007], [0 Fig. 1 & US 6086261 A & DE	012] to [0013]; 19900858 A1	1-3	
Y	JP 2000-240661 A (NTN Corp.) 05 September, 2000 (05.09.00) Claim 2; Par. Nos. [0011] to (Family: none)	,	1-3	
Y	JP 2003-28165 A (NSK Ltd.), 29 January, 2003 (29.01.03), Par. No. [0008]; Fig. 9 (Family: none)		2	
X Post of de		See noticed from the conserv		
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "  "A" document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the inter date and not in conflict with the applica the principle or theory underlying the in	tion but cited to understand	
"E" earlier application or patent but published on or after the international filing date		"X" document of particular relevance; the cl	laimed invention cannot be	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be		
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
"P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the art  "&" document member of the same patent family		
29 Marc	al completion of the international search ch., 2005 (29.03.05)	Date of mailing of the international sear 12 April, 2005 (12.		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		

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PCT/JP2004/018113

C (Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Rel evant to claim No.
Y	JP 64-79419 A (NSK Ltd.), 24 March, 1989 (24.03.89), Claim 6; page 2, upper left column, line 2 to page 3, upper left column, line 3; Fig. 4 & WO 1988/009881 Al & US 5590225 A & GB 2217395 A & DE 3890466 T & KR 9701608 B	3
Ā	JP 2002-195255 A (NSK Ltd.), 10 July, 2002 (10.07.02), Claim 1; Par. Nos. [0015] to [0016]; Fig. 1 (Family: none)	1-3
A	JP 2003-166543 A (NSK Ltd.), 13 June, 2003 (13.06.03), Claim 1; Par. Nos. [0010] to [0018]; Figs. 1 to 2 (Family: none)	2
	210 (continuation of second sheet) (January 2004)	

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